

## Refine Search

### Search Results -

Term	Documents
CORNEAL	20845
CORNEALS	3
EPITHELIUM	23132
EPITHELIUMS	67
EPITHELIA	6044
EPITHELIAS	5
(16 AND (CORNEAL ADJ EPITHELIUM)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2
(L16 AND (CORNEAL ADJ EPITHELIUM) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L17

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Thursday, September 22, 2005   [Printable Copy](#)   [Create Case](#)

Set Name   Query  
 side by side

Hit Count

Set Name  
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;  
 OP=AND

<u>L17</u>	L16 and (corneal adj epithelium)	2	<u>L17</u>
<u>L16</u>	L12 and (reduced adj glutathione)	153	<u>L16</u>
<u>L15</u>	L3 and (busulfan or sulfoximine or maleic)	1	<u>L15</u>

<u>L14</u>	L13 and L4	3	<u>L14</u>
<u>L13</u>	L12 and (glutathione)	2715	<u>L13</u>
<u>L12</u>	L10 same (rejection)	19423	<u>L12</u>
<u>L11</u>	L10 and (reduced anj glutathione)	8	<u>L11</u>
<u>L10</u>	(tranplant or transplantation or graft)	161915	<u>L10</u>
<u>L9</u>	L5 and glutathione	0	<u>L9</u>
<u>L8</u>	L5 and (reduced adj glutathione)	0	<u>L8</u>
<u>L7</u>	L4 and (transplant or transplantation or graft)	10	<u>L7</u>
<u>L6</u>	L5 and L4	0	<u>L6</u>
<u>L5</u>	(tranplant) same (rejection)	14	<u>L5</u>
<u>L4</u>	(diacylcystine or diacetylcystine)	79	<u>L4</u>
<u>L3</u>	L2 and (transplant or transplantation)	2	<u>L3</u>
<u>L2</u>	L1 and (diacetylcystine or diacylcystine)	5	<u>L2</u>
<u>L1</u>	Hamuro-Junji.in.	121	<u>L1</u>

END OF SEARCH HISTORY

## Welcome to DialogClassic Web(tm)

Dialog level 05.06.01D

Last logoff: 21sep05 13:56:17

Logon file001 22sep05 14:55:03

## \*\*\* ANNOUNCEMENT \*\*\*

\*\*\*

--UPDATED: Important Notice to Freelance Authors--

See HELP FREELANCE for more information

\*\*\*

## NEW FILES RELEASED

\*\*\*Computer and Information Systems Abstracts (File 56)

\*\*\*Electronics and Communicationss Abstracts (File 57)

\*\*\*Solid State and Superconductivity Abstracts (File 68)

\*\*\*ANTE: Abstracts in New Technologies (File 60)

\*\*\*Civil Engineering Abstracts (File 61)

\*\*\*Aluminium Industry Abstracts (File 33)

\*\*\*Ceramic Abstracts/World Ceramic Abstracts (File 335)

\*\*\*CSA Life Sciences Abstracts (File 24)

\*\*\*Corrosion Abstracts (File 46)

\*\*\*Materials Business File (File 269)

\*\*\*Engineered Materials Abstracts (File 293)

\*\*\*CSA Aerospace &amp; High Technology Database (File 108)

\*\*\*CSA Technology Research Database (File 23)

\*\*\*METADEX(r) (File 32)

\*\*\*FDAnews (File 182)

\*\*\*German Patents Fulltext (File 324)

\*\*\*

## RESUMED UPDATING

\*\*\*Canadian Business and Current Affairs (262)

\*\*\*CorpTech (559)

\*\*\*

Chemical Structure Searching now available in Prous Science Drugs  
of the Future (F453), IMS R&D Focus (F445), Beilstein Facts (F390),  
and Derwent Chemistry Resource (F355).

\*\*\*

&gt;&gt;&gt; Enter BEGIN HOMEBASE for Dialog Announcements &lt;&lt;&lt;

&gt;&gt;&gt; of new databases, price changes, etc. &lt;&lt;&lt;

\*\*\*\*

KWIC is set to 50.

HIGHLIGHT set on as ' '

\* \* \*

File 1:ERIC 1966-2004/Jul 21

(c) format only 2004 Dialog

\*File 1: Updates suspended until Q4 2005.

Set Items Description

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Cost is in DialUnits

?

B 155, 5, 73

22sep05 14:55:14 User259876 Session D801.1

\$0.81 0.232 DialUnits File1

\$0.81 Estimated cost File1

\$0.05 INTERNET

\$0.86 Estimated cost this search

\$0.86 Estimated total session cost 0.232 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2005/Sep 22

(c) format only 2005 Dialog  
 File 5:Biosis Previews(R) 1969-2005/Sep W3  
 (c) 2005 BIOSIS  
 File 73:EMBASE 1974-2005/Sep 22  
 (c) 2005 Elsevier Science B.V.

Set	Items	Description
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?

S (DIACETYLCYSTINE OR DIACYLCYSTINE)

36 DIACETYLCYSTINE  
 2 DIACYLCYSTINE

S1 38 (DIACETYLCYSTINE OR DIACYLCYSTINE)

?

S S1 AND (TRANSPLANT OR TRANSPLANTATION OR GRAFT)

38 S1  
 182481 TRANSPLANT  
 1470592 TRANSPLANTATION  
 424080 GRAFT

S2 2 S1 AND (TRANSPLANT OR TRANSPLANTATION OR GRAFT)

?

RD

...completed examining records

S3 2 RD (unique items)

?

T S3/3,K/ALL

3/3,K/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)  
 (c) 2005 BIOSIS. All rts. reserv.

0014556715 BIOSIS NO.: 200300512078

# ALLOGENEIC CORNEAL LIMBAL TRANSPLANT SURVIVAL BY REGULATING INTRACELLULAR THIOL REDOX STATUS

AUTHOR: Maruyama K (Reprint); Yamada J; Hamuro J (Reprint); Kinoshita S  
 (Reprint)

AUTHOR ADDRESS: Ophthalmology, Kyoto Prefectural Univ of Med, Kyoto, Japan\*\*  
 Japan

JOURNAL: ARVO Annual Meeting Abstract Search and Program Planner 2003 p  
 Abstract No. 917 2003 2003

MEDIUM: cd-rom

CONFERENCE/MEETING: Annual Meeting of the Association for Research in  
 Vision and Ophthalmology Fort Lauderdale, FL, USA May 04-08, 2003;  
 20030504

SPONSOR: Association for Research in Vision and Ophthalmology

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

# ALLOGENEIC CORNEAL LIMBAL TRANSPLANT SURVIVAL BY REGULATING INTRACELLULAR THIOL REDOX STATUS

ABSTRACT: Purpose: Corneal limbal **transplantation** (LT) shows high rate  
 rejection because of the presence of donor derived antigen presenting  
 cells (APC) in donor cornea. Since allograft rejection is mainly mediated  
 ...

...male BALB/c (H-2d) hosts were removed. They received 9 week male B10.D2 (H-2d) corneal limbal allografts. 200 mug of N,N'- **Diacetylcystine** dimetylester ((NACOME)2) was injected subconjunctivally for reducing intracellular glutathione. Three kinds of treatment designs were performed: treatment in both donor and host (Group 1), host only (Group 2), donor only (Group 3), and none (control). **Graft** rejection was observed by slitlamp microscopy everyday. Results: The entire corneal surface being reepithelialized at 3-4 days after LT in all groups. Five days after LT, corneas of Group2 (n = 6), Group3 (n = 5), and controls (n = 6) became opacified due to **graft** rejection. On the other hand, the donor grafts of Group 1 significantly enhanced allo LT survival(90%) until 56days (n = 13, p < 0.001). Conclusions: Localized medication of (NACOME)2 promoted corneal allo LT survival. It was necessary to treat both donor and host for the **graft** survival. We can imply that the both donor derived -and host derived APC lose the capacity to induce alloresponse by the modulation of intracellular glutathione.

## DESCRIPTORS:

METHODS & EQUIPMENT: allogeneic corneal limbal **transplantation** --

MISCELLANEOUS TERMS: ...limbal **transplant** survival...

3/3,K/2 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2005 Elsevier Science B.V. All rts. reserv.

11327406 EMBASE No: 2001340839

**N,Nprime-diacetyl-L-cystine (DiNAC), the disulphide dimer of N-acetylcysteine, inhibits atherosclerosis in WHHL rabbits: Evidence for immunomodulatory agents as a new approach to prevent atherosclerosis**

Wagberg M.; Jansson A.-H.; Westerlund C.; Ostlund-Lindqvist A.-M.; Sarnstrand B.; Bergstrand H.; Pettersson K.

Dr. K. Pettersson, Science Invest AB, P.O. Box 3096, SE-400 10 Goteborg Sweden

AUTHOR EMAIL: knut.pettersso@a-plusscience.se

Journal of Pharmacology and Experimental Therapeutics ( J. PHARMACOL.

EXP. THER. ) (United States) 2001, 299/1 (76-82)

CODEN: JPETA ISSN: 0022-3565

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 38

DRUG TERMS (UNCONTROLLED): n,n' **diacetylcystine** --drug analysis--an; n,n' **diacetylcystine** --pharmacology--pd; n,n' **diacetylcystine** --oral drug administration--po; h 212 43--drug analysis--an; h 212 43--pharmacology--pd; h 212 43--oral drug administration--po; h 330 43...

## SECTION HEADINGS:

018 Cardiovascular Diseases and Cardiovascular Surgery

026 Immunology, Serology and **Transplantation**

029 Clinical and Experimental Biochemistry

030 Clinical and Experimental Pharmacology

037 Drug Literature Index

?

Set	Items	Description
S1	38	(DIACETYLCYSTINE OR DIACYLCYSTINE)
S2	2	S1 AND (TRANSPLANT OR TRANSPLANTATION OR GRAFT)
S3	2	RD (unique items)

?

S (TRANSPLANT OR TRANSPLANTATION OR GRAFT)  
 182481 TRANSPLANT  
 1470592 TRANSPLANTATION  
 424080 GRAFT  
 S4 1697530 (TRANSPLANT OR TRANSPLANTATION OR GRAFT)

?

S S4 AND (REDUCED (W) GLUTATHIONE)  
 1697530 S4  
 1815794 REDUCED  
 197881 GLUTATHIONE  
 19527 REDUCED(W)GLUTATHIONE  
 S5 405 S4 AND (REDUCED (W) GLUTATHIONE)

?

Set	Items	Description
S1	38	(DIACETYLCYSTINE OR DIACYLCYSTINE)
S2	2	S1 AND (TRANSPLANT OR TRANSPLANTATION OR GRAFT)
S3	2	RD (unique items)
S4	1697530	(TRANSPLANT OR TRANSPLANTATION OR GRAFT)
S5	405	S4 AND (REDUCED (W) GLUTATHIONE)

?

S S5 AND (DIACETYLCYSINE OR DIACYLCYSTINE OR BUSULFAN OR SULFOXIMINE OR MALEIC)  
 405 S5  
 0 DIACETYLCYSINE  
 2 DIACYLCYSTINE  
 16588 BUSULFAN  
 10012 SULFOXIMINE  
 7574 MALEIC  
 S6 16 S5 AND (DIACETYLCYSINE OR DIACYLCYSTINE OR BUSULFAN OR  
 SULFOXIMINE OR MALEIC)

?

RD  
 ...completed examining records  
 S7 15 RD (unique items)

?

S S7 NOT PY>2000  
 15 S7  
 7316970 PY>2000  
 S8 12 S7 NOT PY>2000

?

T S8/3,K/ALL

8/3,K/1 (Item 1 from file: 155)  
 DIALOG(R)File 155:MEDLINE(R)  
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10076167 PMID: 1843667

**[Changes in glutathione levels in the renal cortex of dogs during preservation by continuous hypothermic pulsatile perfusion]**  
 Modification des taux de glutathion dans le cortex des reins canins au cours de leur conservation par perfusion pulsatile hypothermique continue.  
 Boudjema K; Southard J H; Belzer F O; Jaeck D; Cinqualbre J  
 Unite de transplantation d'organes et laboratoire de chirurgie experimentale, Hopital de Haute-pierre, Strasbourg.

Chirurgie; memoires de l'Academie de chirurgie (FRANCE) 1991, 117 (9)  
p675-82, ISSN 0001-4001 Journal Code: 0236600  
Contract/Grant No.: DK 18624; DK; NIDDK  
Publishing Model Print  
Document type: Journal Article ; English Abstract  
Languages: FRENCH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

... the kidney at 5 degrees C, there was a loss of GT from the cortex tissue (524 +/- 1% GT remained after 5 days). Perfusion with **reduced glutathione** (GSH, 3 mM) suppressed this loss (77 +/- 11% of GT remained after 5 days). Oxidized glutathione (GSSG) did not prevent the loss of GT. The...

... of control values at 5 days). The increase in tissue GT stimulated by GSH or other precursors was sensitive to the GT synthetase inhibitor, buthionine **sulfoximine**. This indicated active GT metabolism even at 5 degrees C in perfused kidneys. This study showed that in kidney preservation there was a loss of...

... could be suppressed by the addition of various precursors for GT synthesis. The loss of GT from preserved kidneys may be one cause of post-**transplant** renal injury which could be prevented by utilization of the appropriate GT precursors.

8/3,K/2 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2005 BIOSIS. All rts. reserv.

0010044675 BIOSIS NO.: 199598512508

**Protective Effects of N-Acetylcysteine on Hypothermic Ischemia-Reperfusion Injury of Rat Liver**

AUTHOR: Nakano Hiroshi; Boudjema Karim (Reprint); Alexandre Eliane; Imbs Pierre; Chenard Marie Pierre; Wolf Philippe; Cinqualbre Jacques; Jaeck Daniel

AUTHOR ADDRESS: Cent. Chirurgie Viscerale Transplantation, Hop. Univ. Haute-pierre, 67098 Strasbourg Cedex, France\*\*France

JOURNAL: Hepatology 22 (2): p539-545 1995 1995

ISSN: 0270-9139

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: phosphatase, a marker of Kupffer cell injury (344.4 +/- 89.6 vs. 927.3 +/- 150.8 IU/L/g; P lt .01) in the perfusate. **Reduced glutathione** concentrations in the perfusate were similar in the two groups (805 +/- 69 vs. 798 +/- 252 nmol/L/g), whereas oxidized glutathione (GSSG) concentrations were higher in the control group (967 +/- 137 vs. 525 +/- 126 nmol/L/g; P lt .05). **Reduced glutathione** (GSH) concentrations in liver tissue collected at the end of perfusion were significantly higher in the NAC group (7.3 +/- 0.9 vs. 4.1...

...0 mu-mol/g; P lt .05). The protective effect of NAC on cold ischemia-reperfusion liver injury persisted when animals were pretreated with buthionine **sulfoximine** (BSO), a specific inhibitor of glutathione synthesis. Our results suggest that NAC enhances the concentrations of cysteine within hepatocytes, providing a substrate for glutathione synthesis...

## DESCRIPTORS:

MISCELLANEOUS TERMS: ...LIVER **TRANSPLANTATION** ;

8/3,K/3 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0007719684 BIOSIS NO.: 199191102575

**CHANGES IN GLUTATHIONE CONCENTRATION IN HYPOTHERMICALLY PERFUSED DOG KIDNEYS**

AUTHOR: BOUDJEMA K (Reprint); LINDELL S L; SOUTHARD J H; BELZER F O

AUTHOR ADDRESS: DEP SURG, UNIV WIS MED SCH, 600 HIGHLAND AVE, H4/332, MADISON, WIS 53792, USA\*\*USA

JOURNAL: Journal of Laboratory and Clinical Medicine 117 (2): p131-137 1991

ISSN: 0022-2143

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

...ABSTRACT: the kidney at 5.degree. C, a loss of glutathione from the cortex tissue was seen (24% .+- . 1% glutathione remained after 5 days). Perfusion with **reduced glutathione** (GSH, 3 mmol/L) suppressed this loss (77% .+- . 11% of glutathione remained after 5 days). Oxidized glutathione (GSSG) did not prevent the loss of glutathione...

...of control values at 5 days). The increase in tissue glutathione stimulated by GSH or other precursors was sensitive to the glutathione synthetase inhibitor, buthionine **sulfoximine**. This indicated the existence of active glutathione metabolism even at 5.degree. C in perfused kidneys. This study showed that in kidney preservation a loss...

...REGISTRY NUMBERS: BUTHIONINE **SULFOXIMINE** ;DESCRIPTORS: KIDNEY PRESERVATION POST- **TRANSPLANT** RENAL INJURY OXYGEN-FREE RADICAL THIOPROLINE GLYCINE GLUTAMIC ACID CYSTEINE BUTHIONINE **SULFOXIMINE** 5 5' DITHIOBIS-2-NITROBENZOIC ACID N-2

HYDROXYETHYLPIPERAZINE-N'-2-ETHANESULFONIC ACID

## DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...BUTHIONINE **SULFOXIMINE** ;

8/3,K/4 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

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07696116 EMBASE No: 1999176857

**Activation of nuclear factor-kappaB in human metastatic melanoma cells and the effect of oxidative stress**

Meyskens F.L. Jr.; Buckmeier J.A.; McNulty S.E.; Tohidian N.B.

F.L. Meyskens Jr., Chao Family Comprehensive Can. Ctr., UC-Irvine Medical Center, Building 23, 101 The City Drive, Orange, CA 92868 United States

AUTHOR EMAIL: flmeyske@uci.edu

Clinical Cancer Research ( CLIN. CANC. RES. ) (United States) 1999, 5/5 (1197-1202)

CODEN: CCREF ISSN: 1078-0432

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 29

...unknown. A unique biochemical feature of the melanocyte is the



synthesis of melanin, which leads to the generation of hydrogen peroxide and the consumption of **reduced glutathione**. This activity produces a state of chronic oxidative stress in these cells. We demonstrated previously that the expression of the c-jun family was dysregulated...

...in melanoma cells compared with normal melanocytes. Following oxidative stress produced by enzyme-generated Hinf 20inf 2, free Hinf 20inf 2, or incubation with buthionine **sulfoximine**, NF-kappaB binding activity increased 1.5- to 2.5-fold in melanoma cells (buthionine **sulfoximine** > Hinf 20inf 2), but only slightly in normal melanocytes. In contrast, activator protein-1 binding activity was unaffected or increased in normal melanocytes in response...

SECTION HEADINGS:

- 013 Dermatology and Venereology
- 016 Cancer
- 026 Immunology, Serology and **Transplantation**

8/3,K/5 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

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06945436 EMBASE No: 1997229952

**Intracellular GSH content and HIV replication in human macrophages**

Garaci E.; Palamara A.T.; Ciriolo M.R.; D'Agostini C.; Ab del-Latif M.S.; Aquaro S.; Lafavia E.; Rotilio G.

A.T. Palamara, DEMBS, University of Rome Tor Vergata, Via di Tor Vergata 135, 00133 Rome Italy

Journal of Leukocyte Biology ( J. LEUKOCYTE BIOL. ) (United States) 1997, 62/1 (54-59)

CODEN: JLBIE ISSN: 0741-5400

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 35

In vitro HIV-1 infection induced a significant decrease in intracellular **reduced glutathione** (GSH) in human macrophages. Such a decrease was observed at the time of infection corresponding to maximum release of virus from infected cells and was...

...related to cell cytotoxicity. GSH loss was not related to its oxidation or leakage through the cell membrane. Inhibition of intracellular GSH synthesis by buthionine **sulfoximine** (BSO) did not further decrease GSH levels with respect to the decrease caused by HIV alone. However, treatment of macrophages with BSO significantly increased the...

DRUG DESCRIPTORS:

buthionine **sulfoximine**; gag protein; virus protein

CAS REGISTRY NO.: 70-18-8 (glutathione); 5072-26-4 (buthionine **sulfoximine**)

SECTION HEADINGS:

- 004 Microbiology: Bacteriology, Mycology, Parasitology and Virology
- 026 Immunology, Serology and **Transplantation**

8/3,K/6 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

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06817333 EMBASE No: 1997099825

**Upregulation of intracellular glutathione by fibroblast-derived**

**factor(s): Enhanced survival of activated T cells in the presence of low Bcl- 2**

Hyde H.; Borthwick N.J.; Janossy G.; Salmon M.; Akbar A.N.  
 Dr. A.N. Akbar, Department of Clinical Immunology, Royal Free Hosp.  
 School of Medicine, Pond St, Hampstead, London NW3 2QG United Kingdom  
 Blood ( BLOOD ) (United States) 1997, 89/7 (2453-2460)  
 CODEN: BLOOA ISSN: 0006-4971  
 DOCUMENT TYPE: Journal; Article  
 LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
 NUMBER OF REFERENCES: 60

...have previously shown that the survival of IL-2-deprived T cells can be promoted by factor(s) secreted by fibroblasts. Here we report that **reduced glutathione** (GSH), but not its oxidized counterpart GSSG, also enhances the in vitro survival of these cells. Exogenous GSH mediates its effect intracellularly, as (1) endogenous...

...fibroblast-promoted T-cell survival. We show that WI38-promoted survival results in elevated GSH levels in surviving T cells and is abrogated by buthionine **sulfoximine** (BSO), an inhibitor of GSH synthesis. Furthermore, both WI38-promoted T-cell survival and GSH upregulation are associated with large molecular weight molecules (>30 kD...

DRUG DESCRIPTORS:

acivicin; buthionine **sulfoximine** ; cysteine; cystine; glutathione disulfide

CAS REGISTRY NO.: 70-18-8 (glutathione); 85898-30-2 (interleukin 2); 42228-92-2 (acivicin); 5072-26-4 (buthionine **sulfoximine** ); 4371-52-2

SECTION HEADINGS:

026 Immunology, Serology and **Transplantation**  
 029 Clinical and Experimental Biochemistry

**8/3,K/7 (Item 4 from file: 73)**

DIALOG(R)File 73:EMBASE

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06653244 EMBASE No: 1996318114

**Glutathione-dependent modulation of exhausting exercise-induced changes in neutrophil function of rats**

Atalay M.; Marnila P.; Lilius E.-M.; Hanninen O.; Sen C.K.  
 Department of Physiology, University of Kuopio, FIN-70211 Kuopio Finland  
 European Journal of Applied Physiology and Occupational Physiology ( EUR. J. APPL. PHYSIOL. OCCUP. PHYSIOL. ) (Germany) 1996, 74/4 (342-347)  
 CODEN: EJAPC ISSN: 0301-5548  
 DOCUMENT TYPE: Journal; Article  
 LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

**Reduced glutathione** (GSH) plays a central role in maintaining an effective synergism between various physiological and exogenous antioxidants. We tested the effects of GSH and N-acetylcysteine...

DRUG DESCRIPTORS:

acetylcysteine--endogenous compound--ec; antioxidant--endogenous compound--ec; buthionine **sulfoximine** ; free radical--endogenous compound--ec; luminol; thiol--endogenous compound--ec

CAS REGISTRY NO.: 70-18-8 (glutathione); 616-91-1 (acetylcysteine); 5072-26-4 (buthionine **sulfoximine** ); 521-31-3 (luminol)

SECTION HEADINGS:

002 Physiology  
 026 Immunology, Serology and **Transplantation**

8/3,K/8 (Item 5 from file: 73)

DIALOG(R)File 73:EMBASE

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06601021 EMBASE No: 1996265736

**Thiol-mediated redox regulation of neutrophil apoptosis**

Watson R.W.G.; Rotstein O.D.; Nathens A.B.; Dackiw A.P.B.; Marshall J.C.  
Toronto Hospital, Department of Surgery, University of Toronto, Eaton  
North 9-234, Toronto, Ont. M5G 2C4 Canada  
Surgery ( SURGERY ) (United States) 1996, 120/2 (150-158)  
CODEN: SURGA ISSN: 0039-6060  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...may induce apoptosis through an alteration in cellular redox state.  
Methods. Human polymorphonuclear leukocytes (PMNs), were incubated with  
medium or with increasing concentrations of the **reduced glutathione**  
(GSH)-depleting agents diethylmaleate and diamide and buthionine  
**sulfoximine**, an inhibitor of GSH synthesis. Apoptosis was assessed by  
means of flow cytometry with propidium iodide DNA staining and confirmed  
morphologically. GSH was measured colorimetrically...

SECTION HEADINGS:

026 Immunology, Serology and **Transplantation**

8/3,K/9 (Item 6 from file: 73)

DIALOG(R)File 73:EMBASE

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06242788 EMBASE No: 1995279648

**The modulation of intracellular glutathione level modulates the  
mitochondrial response in proliferating rat splenocytes**

Pieri C.; Marra M.; Moroni F.; Marcheselli F.; Benatti C.  
Cytology Center, Gerontological Res. Dept. I.N.R.C.A., Via Birarelli no.  
8, 60121 Ancona Italy  
Archives of Gerontology and Geriatrics ( ARCH. GERONTOL. GERIATR. ) (Ireland) 1995, 21/2 (115-125)  
CODEN: AGGED ISSN: 0167-4943  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

We have investigated the effect of intracellular **reduced glutathione** (GSH) levels on the mitochondrial parameters of proliferating rat splenocytes. The intracellular GSH content of the cells was altered by continuous culture with buthionine-S, R- **sulfoximine** (BSO), a specific inhibitor of GSH synthesis. BSO decreased the GSH levels, inhibited DNA synthesis and caused depolarization of mitochondria in 52% of cells stimulated...

DRUG DESCRIPTORS:

buthionine **sulfoximine**; cell dna--endogenous compound--ec

CAS REGISTRY NO.: 70-18-8 (glutathione); 5072-26-4 (buthionine **sulfoximine**)

SECTION HEADINGS:

020 Gerontology and Geriatrics

026 Immunology, Serology and **Transplantation**

029 Clinical and Experimental Biochemistry

8/3,K/10 (Item 7 from file: 73)

DIALOG(R)File 73:EMBASE

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05766619 EMBASE No: 1994182260

**Use of N-acetyl cysteine to increase intracellular glutathione during the induction of antitumor responses by IL-2**

Yim C.-Y.; Hibbs Jr. J.B.; McGregor J.R.; Galinsky R.E.; Samlowski W.E.  
Division of Hematology/Oncology, University of Utah Medical Center, Salt  
Lake City, UT 84132 United States

Journal of Immunology ( J. IMMUNOL. ) (United States) 1994, 152/12  
(5796-5805)

CODEN: JOIMA ISSN: 0022-1767

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...fivefold increase in LU/10sup 6 cells) induced by the combination of NAc-cys with IL-2. IL-2 exposure by itself unexpectedly increased intracellular **reduced glutathione** by 43%. IL-2 and NAc-cys were synergistic in increasing glutathione levels ( **reduced glutathione** : 292% increase; total: 251% increase). Inhibition of glutathione synthesis, using L-buthionine-(S,R)- **sulfoximine** reversed the effects of NAc- cys on intracellular glutathione, as well as cellular proliferation and cytotoxicity. This experiment established that the effects of NAc-cys...

**DRUG DESCRIPTORS:**

buthionine **sulfoximine**

CAS REGISTRY NO.: 616-91-1 (acetylcysteine); 70-18-8 (glutathione);  
85898-30-2 (interleukin 2); 5072-26-4 (buthionine **sulfoximine** )

**SECTION HEADINGS:**

026 Immunology, Serology and **Transplantation**  
037 Drug Literature Index

8/3,K/11 (Item 8 from file: 73)

DIALOG(R)File 73:EMBASE

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05564278 EMBASE No: 1993332378

**Requirement of thiol compounds as reducing agents for IL-2-mediated induction of LAK activity and proliferation of human NK cells**

Yamauchi A.; Bloom E.T.

FDA/CBER/DCGT(HFM-518), 8800 Rockville Pike, Bethesda, MD 20892 United States

Journal of Immunology ( J. IMMUNOL. ) (United States) 1993, 151/10  
(5535-5544)

CODEN: JOIMA ISSN: 0022-1767

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

Thiol-related compounds, such as L-cystine, 2-ME or **reduced glutathione** (GSH), are important in many lymphoid cell activation pathways. We investigated their role in IL-2-generated lymphokine-activated killer (LAK) activity in human NK...

...proton donors) to L-cystine/GSH-depleted medium restored proliferative response of NK cells and LAK generation. In the presence of L-buthionine-(S,R)- **sulfoximine** , an inhibitor of GSH synthesis, IL-2-induced LAK activity and proliferation of NK cells in medium without L-cystine and GSH, could be restored...

**SECTION HEADINGS:**

026 Immunology, Serology and **Transplantation**  
037 Drug Literature Index

8/3,K/12 (Item 9 from file: 73)

DIALOG(R)File 73:EMBASE

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01828682 EMBASE No: 1981199838

**Inhibition of human polymorphonuclear leukocyte function by  
2-cyclohexene-1-one. A role for glutathione in cell activation**

Wedner H.J.; Simchowicz L.; Stenson W.F.; Fischman C.M.

Div. Allergy, Clin. Immunol., Dept. Med., Washington Univ. Sch. Med., St.  
Louis, Mo. 63110 United States

Journal of Clinical Investigation ( J. CLIN. INVEST. ) (United States)  
1981, 68/2 (535-543)

CODEN: JCINA

DOCUMENT TYPE: Journal

LANGUAGE: ENGLISH

2-cyclohexene-1-one and diethyl maleate specifically decrease **reduced glutathione** (GSH) levels in human polymorphonuclear leukocytes (PMN) by direct conjugation, and by interaction with the glutathione-s-transferase system. Using these two nontoxic reagents we...

DRUG DESCRIPTORS:

\*2 cyclohexenone; \*formylmethionylleucylphenylalanine; \*glutathione; \*  
calcimycin; \*lysosome enzyme; \* **maleic** acid diethyl ester; \*superoxide  
...CAS REGISTRY NO.: 930-68-7 (2 cyclohexenone); 70-18-8 (glutathione);  
52665-69-7 (calcimycin); 141-05-9 ( **maleic** acid diethyl ester);  
11062-77-4 (superoxide); 14336-71-1 (calcium chloride ca 45);  
17112-21-9 (sodium chloride na 22)

SECTION HEADINGS:

026 Immunology, Serology and **Transplantation**  
029 Clinical and Experimental Biochemistry  
037 Drug Literature Index

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